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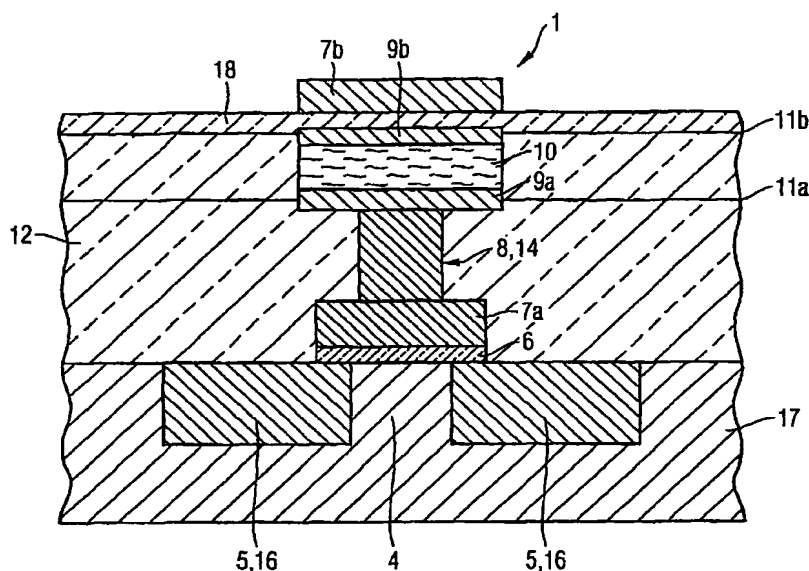
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[Fortsetzung auf der nächsten Seite]

(54) Title: MEMORY CELL AND METHOD FOR PRODUCING A MEMORY

(54) Bezeichnung: SPEICHERZELLE UND VERFAHREN ZUR HERSTELLUNG EINER SPEICHEREINRICHTUNG



(57) Abstract: The invention concerns a method for producing a memory cell (1) comprising an organic storage layer (10), storing a digital information. Said method consists in carrying out a treatment of polycrystalline and monocrystalline semiconductor structures, during which said structures are subjected to high temperatures prior to applying the organic storage layer (10).

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ZM, ZW), eurasisches (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), europäisches (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Veröffentlicht:**

- mit internationalem Recherchenbericht
- vor Ablauf der für Änderungen der Ansprüche geltenden Frist; Veröffentlichung wird wiederholt, falls Änderungen eintreffen

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*Zur Erklärung der Zweibuchstaben-Codes und der anderen Abkürzungen wird auf die Erklärungen ("Guidance Notes on Codes and Abbreviations") am Anfang jeder regulären Ausgabe der PCT-Gazette verwiesen.*

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**(57) Zusammenfassung:** Beim Herstellen einer Speicherzelle (1) mit einer eine digitale Information speichernden organischen Speicherschicht (10) wird vor einem Aufbringen der organischen Speicherschicht (10) eine Prozessierung von poly- und monokristallinen Halbleiterstrukturen, bei der hohe Temperaturen angewendet werden, abgeschlossen.

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/DE2004/001588

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 H01L21/28 H01L21/336 H01L21/8246 H01L29/792 H01L27/115 H01L51/30											
According to International Patent Classification (IPC) or to both national classification and IPC											
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 H01L											
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched											
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal											
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b> <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>Y</td> <td>US 6 051 467 A (CHA CHER LIANG ET AL) 18 April 2000 (2000-04-18) column 1, line 57 - column 4, line 57; figures 1-11</td> <td>1-22</td> </tr> <tr> <td>Y</td> <td>JUNG DAL CHOI ET AL: "A triple polysilicon stacked flash memory cell with wordline self-boosting programming" ELECTRON DEVICES MEETING, 1997. TECHNICAL DIGEST., INTERNATIONAL WASHINGTON, DC, USA 7-10 DEC. 1997, NEW YORK, NY, USA, IEEE, US, 7 December 1997 (1997-12-07), pages 283-286, XP010265507 ISBN: 0-7803-4100-7 the whole document ----- -/--</td> <td>1-22</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	Y	US 6 051 467 A (CHA CHER LIANG ET AL) 18 April 2000 (2000-04-18) column 1, line 57 - column 4, line 57; figures 1-11	1-22	Y	JUNG DAL CHOI ET AL: "A triple polysilicon stacked flash memory cell with wordline self-boosting programming" ELECTRON DEVICES MEETING, 1997. TECHNICAL DIGEST., INTERNATIONAL WASHINGTON, DC, USA 7-10 DEC. 1997, NEW YORK, NY, USA, IEEE, US, 7 December 1997 (1997-12-07), pages 283-286, XP010265507 ISBN: 0-7803-4100-7 the whole document ----- -/--	1-22
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Y	US 6 051 467 A (CHA CHER LIANG ET AL) 18 April 2000 (2000-04-18) column 1, line 57 - column 4, line 57; figures 1-11	1-22									
Y	JUNG DAL CHOI ET AL: "A triple polysilicon stacked flash memory cell with wordline self-boosting programming" ELECTRON DEVICES MEETING, 1997. TECHNICAL DIGEST., INTERNATIONAL WASHINGTON, DC, USA 7-10 DEC. 1997, NEW YORK, NY, USA, IEEE, US, 7 December 1997 (1997-12-07), pages 283-286, XP010265507 ISBN: 0-7803-4100-7 the whole document ----- -/--	1-22									
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Date of the actual completion of the international search		Date of mailing of the international search report									
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Name and mailing address of the ISA European Patent Office, P.B. 5618 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl Fax: (+31-70) 340-3016		Authorized officer  Neumann, A									

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International Application No  
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
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Y	US 2003/111670 A1 (KUHR WERNER G ET AL) 19 June 2003 (2003-06-19) paragraphs '0002! - '0161!; figures 1-8 -----	8,9,18, 19
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A	US 5 981 335 A (CHI MIN-HWA) 9 November 1999 (1999-11-09) column 3, line 62 - column 6, line 46; figures 3-6 -----	1-22

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Information on patent family members

International Application No

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